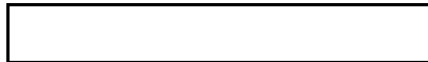


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CIA/PIR-1001/61

June 1961

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PHOTOGRAPHIC INTELLIGENCE REPORT

PHYSICO - TECHNICAL INSTITUTE

TOMSK, USSR



DECLASS REVIEW by NIMA/DOD

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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W A R N I N G

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INTRODUCTION

The Tomsk Physico-Technical Institute, sometimes referred to as the Siberian Physico-Technical Institute, is located in the southern part of Tomsk, USSR (56-29N 84-58E). It is a part of the Tomsk State University. Good-quality, oblique photography of the institutional area, which includes the Tomsk Polytechnical Institute and other institutions, was obtained in

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According to reports, the Physico-Technical Institute is involved in such fields of research as semiconductors, nuclear physics, dielectrics, molecular physics, chemistry, and combustion. 1/2/ Very little collateral information is available on its facilities. Only one ground photograph could be obtained of any of the buildings of the institute, although ground photographs are available of the main buildings of the Tomsk State University and the polytechnical institute.

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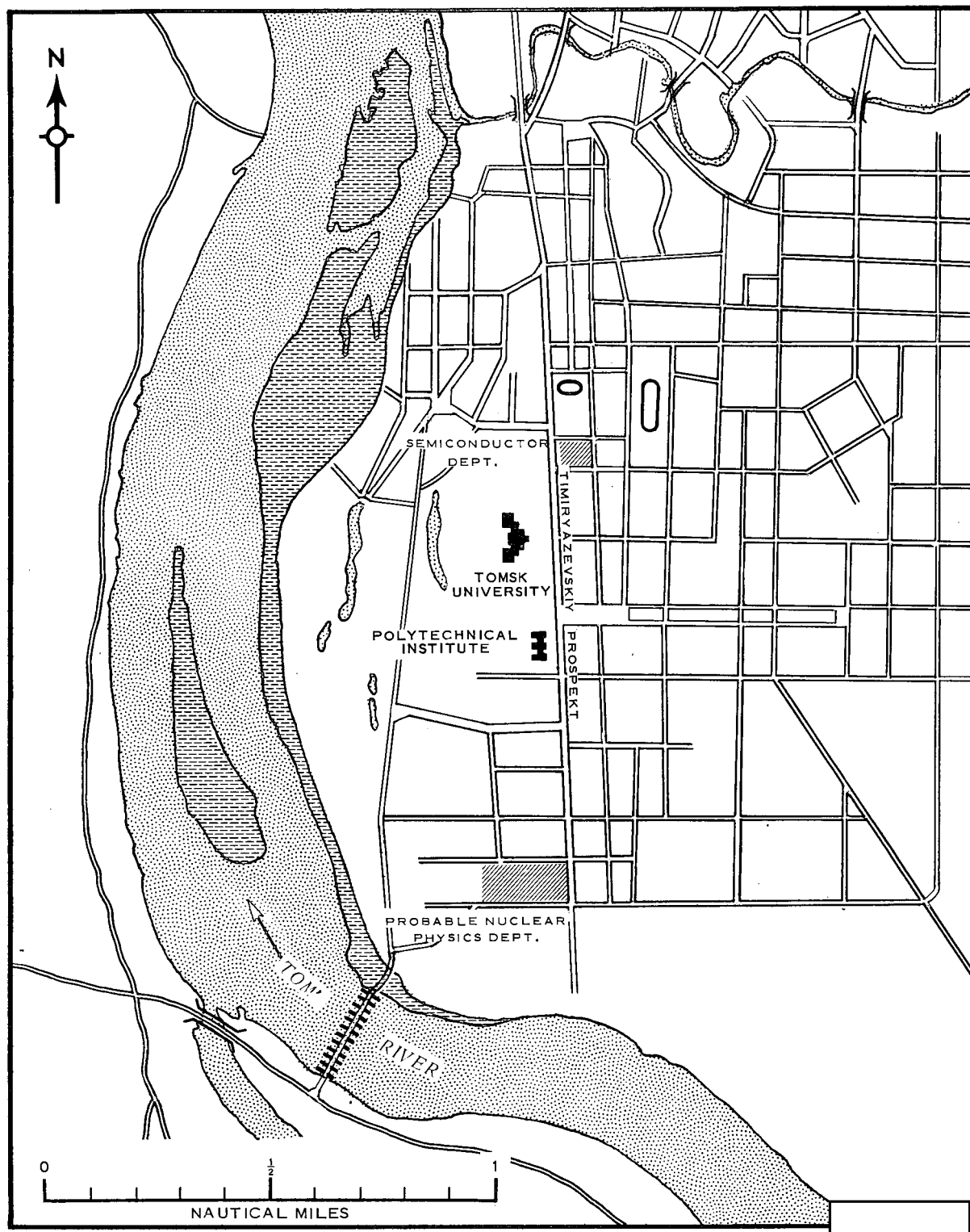


FIGURE 1. MAP OF A PORTION OF TOMSK

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GENERAL DESCRIPTION

The Tomsk Physico-Technical Institute is reportedly divided into two departments which are located about a mile apart (see Figure 1). According to one report, the "Semiconductors Department" is located in the block facing the south side of a municipal park (Revolution Square), and the "Nuclear Physics Department" is located "on the outskirts of the town" near the south end of Timiryazevskiy Prospekt (street). 2/ A ground photograph in a Soviet publication of a building of the institute, used in conjunction with the aerial photography, verified the location of a part of the institute at the reported site of the Semiconductors Department. The photo was captioned "Tomsk Physico-Technological Institute." The aerial photography of  shows an institutional-type facility near the end of Timiryazevskiy Prospekt which is probably the Nuclear Physics Department indicated in the report. The appearance of the grounds around the buildings suggests they are of comparatively recent construction. Coordinates for the Semiconductors Department are 56-28-20N 84-57E, and for the Nuclear Physics Department 56-27-20N 84-57E.

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A description of the facilities at the two locations follows.

Semiconductors Department

There are only five buildings in the block in which the Semiconductors Department is located (see Figure 2). A board fence apparently encloses all of the buildings in the block, but trees prevent verification of this. The area contains about 2.5 acres. The main building (No 1, Figure 2) is a rather large, two-story structure with numerous vents on the roof. A ground shot of this building taken from the park across the street is shown in Figure 2. There are three small shedlike buildings and another rather large two-story building which was called "House of Scientists and Scholars" (No 2, Figure 2) in one report. 3/ Large trees obscure many

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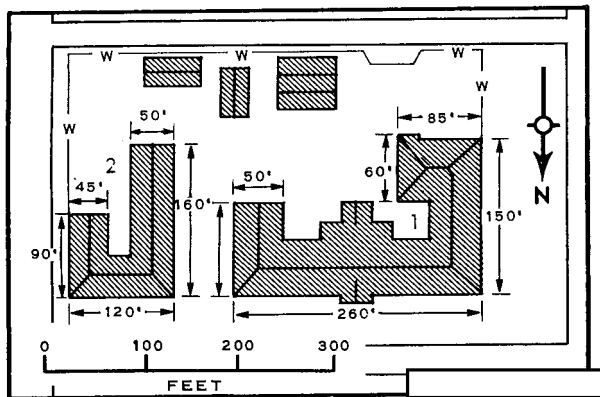


FIGURE 2. SEMICONDUCTORS DEPARTMENT AND PHOTO OF MAIN BUILDING OF SEMICONDUCTORS DEPARTMENT. (Date of photograph unknown)

of the details within the area, and it cannot be determined if the main building is separated by a fence from the "House of Scientists and Scholars." Figure 2 shows the layout of the buildings and their approximate dimensions.

Probable Nuclear Physics Department

The Probable Nuclear Physics Department occupies approximately 20 acres near the south end of Timiryazevskiy Prospekt. The facilities include a large, three-four story office-type building which possibly includes classrooms and laboratories, a large two-three story laboratory building, a probable heating plant, an electrical substation, and several small buildings -- all enclosed by fencing. The layout of these facilities is shown in Figure 3.

The main research facilities are probably housed in the laboratory building. This building has an irregular roof, with numerous vents, and was probably designed to accommodate special equipment. The type of equipment cannot be determined from the photography.

Electricity is provided by a substation with an estimated capacity of 35kv. The substation contains three transformers.

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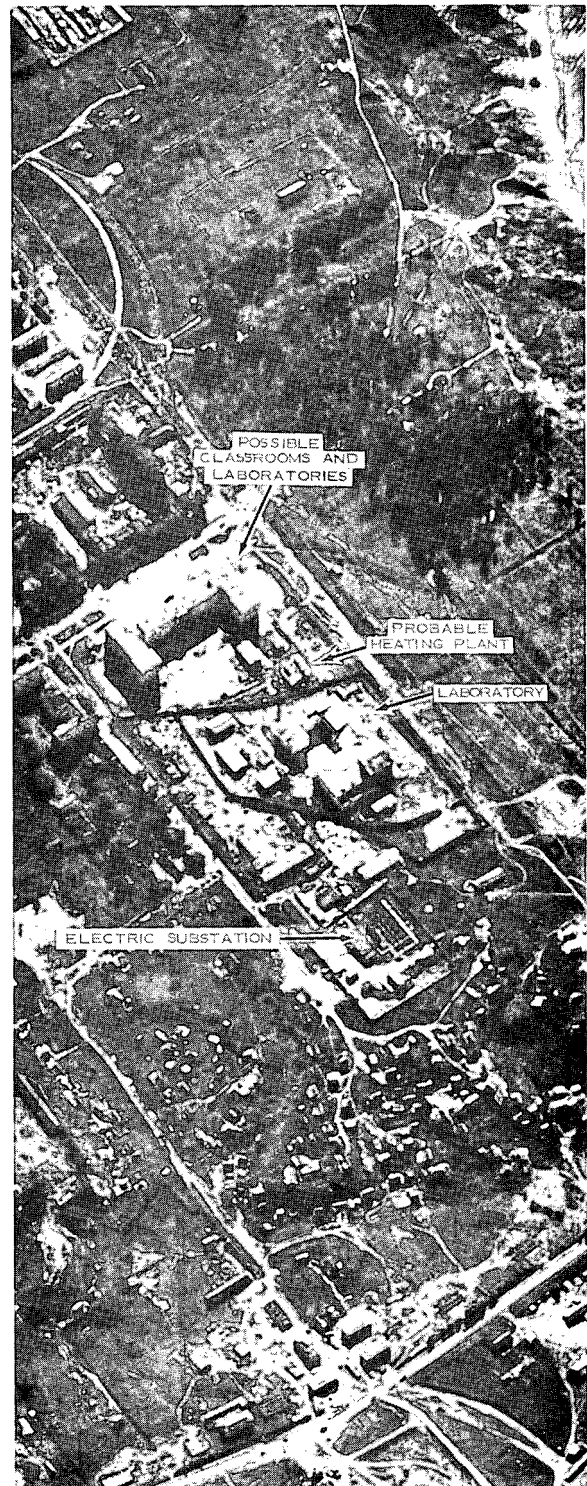
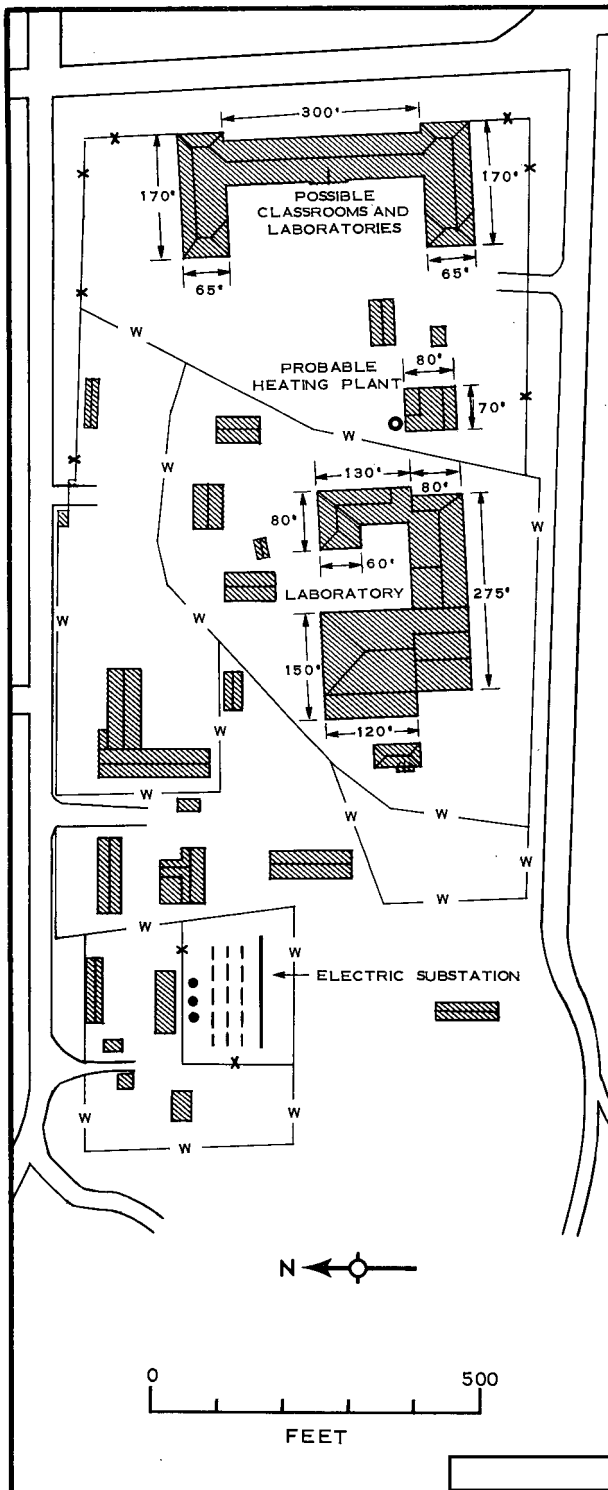


FIGURE 3. PROBABLE NUCLEAR PHYSICS DEPARTMENT. (Photography of [redacted])

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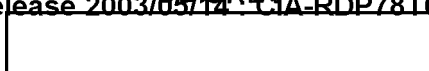
COMPARISON WITH OTHER SOVIET PHYSICO-TECHNICAL INSTITUTES

When compared with other physico-technical institutes such as those at Leningrad and Kharkov, the Tomsk institute is rather small. This appears to be the case at least when compared with the reported size of the Leningrad institute and with photography of the Kharkov institute. The type of research activity carried on at such institutes usually does not require facilities that are particularly distinctive in appearance -- they have rather an "institutional" appearance, including the usual office and laboratory buildings. There are exceptions to this rule, however, when large special facilities are built, such as the 2-4 BEV Linear Electron Accelerator of the Kharkov Physico-Technical Institute (see PIC/R-1003/61

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